

Hydrologic Model Manager

Short Name	NWSRFS
Long Name	National Weather Service River Forecast System
Description	
Model Type	conceptual soil moisture accounting, snow ablation and Accumulation with multiple options for routing flow and computing Reservoir levels and outflows. Various utility and display functions.
Model Objectives	forecast flows for river and flood forecasting
Agency Office	National Weather Service, Office of Hydrologic Development
Tech Contact	Hydrology Laboratory NWS/NOAA 1325 East West Highway, Rm 8344 Silver Spring, MD 20910
Model Structure	lumped parameter
Interception	
Groundwater	
Snowmelt	
Precipitation	
Evapo-transpiration	
Infiltration	
Model Paramters	Soil , snow accumulation , evaporation, vegetation, routing, reservoir, display
Spatial Scale	basin
Temporal Scale	can be run at 1, 2, 3, 6, 8, 12, 24 hour intervals
Input Requirements	mean areal precipitation, temperature, and Evaporation and point flow, stage, snow, reservoir levels, freezing levels, etc. Both observed and forecast values for all.
Computer Requirements	Currently, UNIX scientific workstation (work is Being done to port to Windows and Linux operating systems on a PC platform)
Model Output	stage, flow, rainfall excess, reservoir heights , reservoir Outflows, water surface profiles, forecast uncertainty estimates
Parameter Estimatr Model Calibrtn	interactive manual and Optimization options
Model Testing Verification	20 years of development, testing and verification within the NWS and about 10 years outside NWS.
Model Sensitivity	depends on model configuration
Model Reliability	
Model Application	Currently operational at 13 River Forecast Centers and numerous applications worldwide.
Documentation	NWSRFS Users Manual
Other Comments	See http://www.nws.noaa.gov/oh/hrl/

Date of Submission	5/1/2001 3:08:29 PM
Developer	
Technical Contact	
Contact Organization	